Creating Ideas Applying Values

STRUCT GEOTECH RESEARCH LABORATORIES (P) LTD

BSCIC JAS-ANZ ISO 9001 REGISTERED BN1868/1500:0210

No. 588, 2nd Main, 6th Block
Hosakerehalli Cross
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Bangalore - 560 085, India

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SGRL//BBMP/YES/2014-15/582 09.08.2014

To
The Assistant Executive Engineer
Yeshwanthapura sub-division
Complex 2nd floor, Yeshwanthapura
Bruhath Bangalore Mahanagara Palike
Bangalore

Sir,

Sub: Quality Control Tests on materials for the work of Construction of RCC drain at 12th cross of Mutyalanagara in ward no 17

Ref: 1. W.O. No. EE/QC/Div-2/PR/324/11-12, dt. 18.03.2013
2. Letter no. NO/AEE/YPRSD/AE/CT-01/2013-14, dt: 11.06.2014

With reference to the above cited subject, herewith we are submitting the reports pertaining to 40mm, 20mm, Sand, Cement and concrete cube report . Kindly acknowledge the same upon receipt of Test reports.

This is for your kind information.

Thanking you

Yours faithfully

For Struct Geotech Research Laboratories Private Limited

Authorized Signature

Report No.: SGRL / CM / 1710/ 14 - 15

30.07.2014

TEST REPORT

Client*	:	The Assistant Executive Engineer, Yashwanthpura Sub - Division, Commercial Complex, 2nd floor, Yashwanthpura Bruhath Bengaluru Mahanagara Palike, Bangalore.
Client Reference*	:	AEE /YPRSD/AE/CT-01/2013-14, date: 11.06.2014
Job Reference *	:	EE/QC/Div-2/PR/324/11-12, dated 18.03.2013
CSR No.	:	CM 588, date: 30.07.2014
Name of the work*	:	Construction of RCC drain at 12th cross of Mutyalanagara in ward no. 17
Contractor*	:	Mr.G.Vasu
Source of Sample	:	Sample supplied of TPIA
Sample Id*	:	12th cross of Mutyalanagara in ward no. 17 – PCC 1:4:8 for RCC Drain Work.
Date of receipt	:	30.07.2014
Date of testing	:	30.07.2014
Type of sample	:	Coarse Aggregate - 40mm and down size
Name of test	:	Sieve Analysis

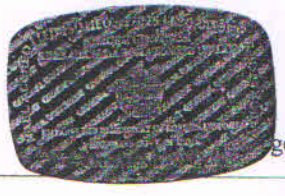
IS Sieve Designation	Cumulative Percent Passing		Test Method
	Test Result	Requirement as per Table – 1000-1 of MoRT&H	
63.00 mm	100	100	IS: 2386 (Part 1) - 1963
40.00 mm	95.16	95 - 100	
20.00 mm	41.09	30 - 70	
10.00 mm	10.51	10 - 35	
4.75 mm	0.02	0 - 5	

For Struct Geotech Research Laboratories Pvt. Ltd.,

Authorized Signature

Note: (i) The Results relate only to the items tested (ii) This test report should not be reproduced except in full, without written approval of this laboratory (iii) Any corrections invalidates this report (iv) Any Query regarding the report must be reported immediately

***Information as furnished by TPIA**



No.: 588, 2nd Main, 6th Block, Hosekerehalli Cross, Banashankari III Stage, II Phase, Bangalore- 560 085,
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Email: info@structgeotech.com, enquiry@structgeotech.com, URL: www.structgeotech.com

Report No.: SGRL / CM / 1711 / 14-15 30.07.2014

TEST REPORT

Client*	:	The Assistant Executive Engineer, Yashwanthpura Sub - Division, Commercial Complex, 2nd floor, Yashwanthpura Bruhath Bengaluru Mahanagara Palike, Bangalore.
Client Reference*	:	AEE /YPRSD/AE/CT-01/2013-14, date: 11.06.2014
Job Reference *	:	EE/QC/Div-2/PR/324/11-12, dated 18.03.2013
CSR No	:	CM 588, date: 30.07.2014
Name of the work*	:	Construction of RCC drain at 12th cross of Mutyalanagara in ward no. 17
Contractor*	:	Mr.G.Vasu
Source of Sample	:	Sample supplied of TPIA
Sample Id*	:	12th cross of Mutyalanagara in ward no. 17 – M20 for RCC Drain Work.
Date of receipt	:	30.07.2014
Date of testing	:	30.07.2014
Type of sample	:	Coarse Aggregate - 20mm and down size
Name of test	:	Sieve Analysis

IS Sieve Designation	Cumulative Percent Passing		Test Method
	Test Result	Requirement as per Table – 1000-1 of MoRT&H	
40.00 mm	100	100	IS: 2386 (Part 1) - 1963
20.00 mm	95.45	95-100	
10.00 mm	30.30	25-55	
4.75 mm	0.00	0-10	

For Struct Geotech Research Laboratories Pvt. Ltd.,

Authorized Signature

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***Information as furnished by TPIA**

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Report No.: SGRL / CM / 1712 / 14-15

30.07.2014

TEST REPORT

Client* : The Assistant Executive Engineer,
Yashwanthpura Sub - Division,
Commercial Complex, 2nd floor, Yashwanthpura
Bruhath Bengaluru Mahanagara Palike,
Bangalore.

Client Reference* : AEE /YPRSD/AE/CT-01/2013-14, date: 11.06.2014
Job Reference* : EE/QC/Div-2/PR/324/11-12,dated 18.03.2013
CSR No. : CM 588, date: 30.07.2014
Name of the Project* : Construction of RCC drain at 12th cross of Mutyalanagara in ward no. 17
Contractor* : Mr.G. Vasu
Source of Sample : Sample supplied of TPIA
Sample ID* : 12th cross of Mutyalanagara in ward no. 17 - PCC 1:4:8 and M20 Concrete for RCC Drain Work.
Type of Sample : Sand
Name of Test : Sieve Analysis
Date of Receipt : 30.07.2014
Date of Testing : 30.07.2014
Test Method : IS : 2386 (Part 1) 1963

Sl. No.	Sieve Size (mm)	Weight Retained	% Weight Retained	Cumulative % of Weight Retained	% of Weight Passing	Specifications as Per MoRT&H
1	10	0.00	0.00	0.00	100.00	100.00
2	4.75	30.10	6.02	6.02	93.98	90-100
3	2.36	37.89	7.58	13.60	86.40	75-100
4	1.18	120.30	24.06	37.66	62.34	55-90
5	0.60	60.89	12.18	49.84	50.16	35-59
6	0.30	140.20	28.04	77.88	22.12	8-30
7	0.15	68.14	13.63	91.50	8.50	0-10

The Sand tested conforms to Zone II as per MoRT& H (Fourth Revision)

For Struct Geotech Research Laboratories Private Limited

Authorised Signature

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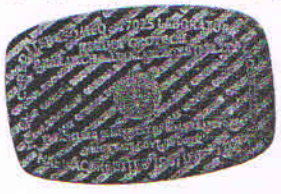
***Information as furnished by the TPIA**



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Report No.: SGRL / CM / 1713 /14-15 07.08.2014

TEST REPORT

Client* : The Assistant Executive Engineer,
Yashwanthpura Sub - Division,
Commercial Complex, 2nd floor, Yashwanthpura
Bruhath Bengaluru Mahanagara Palike,
Bangalore.

Client Reference* : AEE /YPRSD/AE/CT-01/2013-14, date: 11.06.2014

Job Reference * : EE/QC/Div-2/PR/324/11-12, dated 18.03.2013

CSR No : CM 588, date: 07.08.2014

Name of the work* : Construction of RCC drain at 12th cross of Mutyalanagara in ward no. 17

Contractor* : Mr.G.Vasu

Source of Sample : Sample supplied of TPIA

Sample Id* : 12th cross of Mutyalanagara in ward no. 17 – PCC 1:4:8 for RCC Drain Work.

Date of receipt : 30.07.2014

Date of testing : 30.07.2014 to 07.08.2014

Type of Sample : Cement

Type of Cement*: OPC **Grade of Cement*:** 53 **Brand*:** Birla Super

Sl. No.	Description	Test Result	Requirements as per IS: 12269-1987	Test Method
1.	Setting Time			
	a) Initial Setting Time	190 min	Min.30 min	IS 4031 (Part V)
	b) Final Setting Time	410 min	Max.600 min	
2.	Standard Consistency	28.0 %	-	IS: 4031 (Part IV)
3.	Compressive Strength (i) 3 days (72 ± 1h) (average of three results)	31.0 N/mm^2	Not less than 27 N/mm^2	IS: 4031 (Part VI)

For Struct Geotech Research Laboratories Pvt. Ltd.,

Authorized Signature

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Report No.: SGRL / CM / 1767 / 14-15

09.08.2014

TEST REPORT

Client* : The Assistant Executive Engineer
Yeshwanthapura Sub-division,
Complex 2nd floor, Yeshwanthapura
Bruhath Bengaluru Mahanagara Palike,
Bangalore

Client Reference* : AEE/YPRSD/AE/CT-01/2013-14, dt: 11.06.2014

Job Reference* EE/QC/Div-2/PR/324/11-12, dt: 18.03.2013

CSR No. : CM 630, dt: 09.08.2014

Name of the Work* : Construction of RCC Drain at 12th cross of Mutyalanagara in ward no 17

Contractor* : Mr.G. Vasu

Source of sample : Sample supplied of TPIA

Sample ID* : 12th cross of Mutyalanagara in ward no 17- for road side drain work

Grade of Concrete* : CC 1:2:4

Date of Receipt : 09.08.2014

Date of Testing : 09.08.2014

Name Test : Concrete Core Compressive Strength of precast solid concrete kerb stone

Technical : IS : 516 - 1959, SP - 24 : 1983

Sl. No.	Identification*	Core Details				H / D ratio	Correction factor for H/D	Failure Load (kN)	Core Strength (N/mm^2)	Corrected Core Strength for Diameter (N/mm^2)	Corrected Cylinder Compressive Strength (N/mm^2)	Equivalent Cube Compressive Strength (N/mm^2)
		Dia, D (mm)	Height, H (mm)	Weight (kg)	Density (kg/m^3)							
1	CM 630-e_1	74.0	144.43	1.51	2427.3	1.95	0.99	54.0	12.56	13.57	13.50	16.87
2	CM 630-e_2	74.0	145.03	1.47	2361.1	1.96	1.00	52.0	12.10	13.06	13.01	16.26
3	CM 630-e_3	74.0	146.16	1.53	2435.2	1.98	1.00	49.0	11.40	12.31	12.28	15.35

Correction factor : from Fig. 1 of IS: 516 - 1959
Core Strength : Failure Load / Cross sectional area of Core
Corrected Core Strength for Diameter : 1.08 x Core Strength
Corrected Cylinder Compressive Strength : Corrected Core Strength x Correction factor
Equivalent Cube Compressive Strength : 1.25 x Corrected Cylinder Compressive Strength

For Struct Geotech Research Laboratories Private Limited

Authorized Signature

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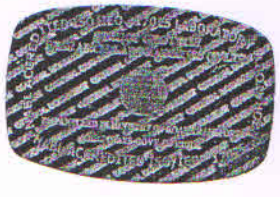
*** Information as furnished by TPIA**

****** end of the test report ******



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Regarding Quality Control Certificate

NAME OF WORK : Construction of RCC drain at 12th cross of Muthyala nagara in ward no 17

JOB NO : 017-14-000034

WORK ORDER NO : EE/RRN/Wo.No/192/2013-14, dated: 31-12-13.

On verification of Quality control test reports available in the file and also from inspection report of the Technical Team deployed for this purpose generally the work executed is satisfactory compliance of Quality Control test reports as per MORT & H this stage is not feasible since the work was executed 2 (two) years back.

Executive Engineer
Rajarajeshwari Nagara Division
BBMP, Bangalore